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- ☑ L1: (163674) "455"/\$.ccls. or "370"/\$.ccls.
- ☑ L2: (26890) 1 and (CDMA or "code division multiple access")
- ☑ L3: (11) 2 and "unused spreading code"
- ☑ L4: (19) 2 and (unused near3 "spreading code")
- ☑ L5: (1) 4 and dummy
- ☑ L6: (509) 2 and dununy
- ☑ L7: (100) 6 and "spreading code"
- ☑ L8: (1) 7 and "superimposing unit"
- ☑ L9: (1) 7 and "pseudo superimposed signal"
- ☑ L10: (1) "pseudo superimposed signal"
- ☑ L11: (36) unused near3 "spreading code"
- ☑ L12: (1) 11 and dummy
- ☑ L13: (5) unused near3 "spreading code".clm.
- ☑ L14: (1) 11 and dummy.clm.
- ☑ L15: (11) "pseudo superimposed signal".clm.

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United States

Patent Application Publication (35) Pub. No.: US 2005/0226187 A1

Minato

(43) Pub. Date: Oct. 13, 2005

(54) DEVICE AND METHOD FOR SELECTING CODES

(57) Inventor: Naoki Minato, Tokyo (JP)

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(21) Appl. No.: 09451,981

(22) Filed: Apr. 2, 2004

Publication Classification

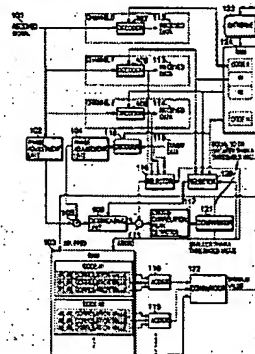
(51) Int. Cl.⁷: H04B 1/68 (2006.01)

(52) U.S. Cl.: 370/335

(53) ABSTRACT

According to the present invention, a code selection device receives an external spreading code, or one of a plurality of

internal spreading codes, is selected for allocation to a communication channel, and a dummy spreading signal generated for despreading thereby is output. The code selection device includes a code selection unit for selecting a spreading code from a plurality of spreading codes, and a despreading unit for despreading the pseudo superimposed signal by using the selected spreading code. The code selection device also includes a code selection unit for selecting a spreading code from a plurality of spreading codes, and a despreading unit for despreading the pseudo superimposed signal by using the selected spreading code. The code selection device also includes a code selection unit for selecting a spreading code from a plurality of spreading codes, and a despreading unit for despreading the pseudo superimposed signal by using the selected spreading code.



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	U	1	Document ID	Source	Issue Date	Pages	Title	Current OR	Current	Ret	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20050226187 A1	US-P GPUB	20051013	15	Device and method for selecting codes	370/335			Minato, Naoki

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☒ L6: (509) 2 and dummy

☒ L7: (100) 6 and "spreading code"

☒ L8: (1) 7 and "superimposing unit"

☒ L9: (1) 7 and "pseudo superimposed signal"

☒ L10: (1) "pseudo superimposed signal"

☒ L11: (36) unused near3 "spreading code"

☒ L12: (1) 11 and dummy

☒ L13: (5) unused near3 "spreading code".clm.

☒ L14: (1) 11 and dummy.clm.

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(a) Pub. Date: Oct. 13, 2005

(4) DEVICE AND METHOD FOR SELECTING
CODES

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(21) Appl. No.: 10/611,981

(22) Filed: Apr. 2, 2004

Publication Classification

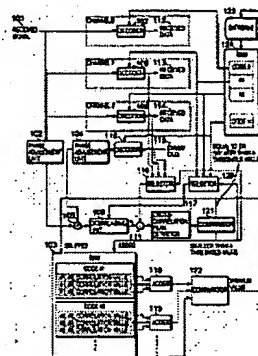
(51) Int. Cl.⁷ H04B 1/14

(52) U.S. Cl. 370/335

(57) ABSTRACT

According to the present invention, a code selection device
selects an unused spreading code, or one of a plurality of

unused spreading codes, to select for allocation to a new
communication channel, comprising a device operating
signal processor for determining unused spreading codes by
using an unused spreading code or codes available for
assignment, and generating unused spreading signals, a
superimposing unit for superimposing the unused spreading
signals and received signals and forming pseudo superim-
posed signals, a demodulating unit for demodulating the pseudo
superimposed signals by using the unused spreading codes
selected in the corresponding pseudo superimposed signals,
and the spreading codes already used for communication
channels that previously have been identified not to be
unused codes suitable for selecting a unused spreading
code based on data for the communication channels rep-
resented by the pseudo superimposed signals and the rep-
resented unused spreading codes. With this configuration, a
method can be provided whereby, in accordance with the
usage condition of a channel, a code selection device
selects a unused spreading code, or one of a plurality of



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- ☑ L8: (1) 7 and "superimposing unit"

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(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0226187 A1

Minato

(4) Pub. Date: Oct. 13, 2005

(54) DEVICE AND METHOD FOR SELECTING CODES

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Publication Classification

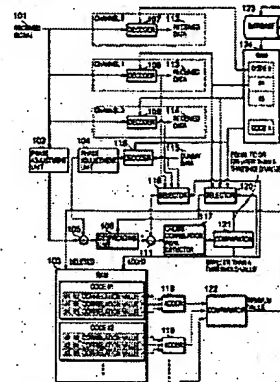
(51) Int. Cl.⁷ H04L 12/26

(52) U.S. Cl. 370/335

ABSTRACT

According to the present invention, a code selection device wherein, an unused spreading code, or one of a plurality of

unused spreading codes, is selected for allocation to a new communication channel, comprising: a dummy spreading code generator for generating dummy original data by using the unused spreading code as code available for employment, and generating dummy spreading signals; a superimposing unit for superimposing the dummy spreading signals and received signals and forming pseudo superimposed signals; a determining unit for determining the pseudo superimposed signals by using the unused spreading code selected to the corresponding pseudo superimposed signals, and the spreading codes already used for communication channels that previously have been established; and a spreading code selector for selecting an unused spreading code based on data for the communication channels reproduced for the pseudo superimposed signals and the reproduced dummy original data. With this configuration, a method can be provided whereby, in accordance with the usage condition of a network, a code sequence having a particular correlation property can be selected, from among a number of code sequences that are generated, and allocated to a communication channel.



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US 2005/0226187 A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0226187 A1

Minato

(47) Pub. Date: Oct. 13, 2005

(54) DEVICE AND METHOD FOR SELECTING CODES

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(21) Appl. No.: 102115301

(22) Filed: Apr. 2, 2004

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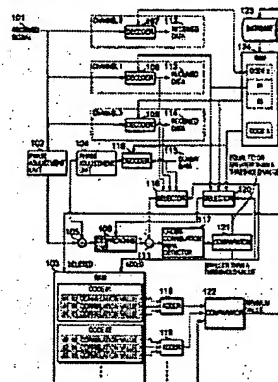
(52) U.S. Cl. 770/100

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